Eradenso

PRO SERIES

User manual

© 2015 Radenso®

Radar Detector *RADENSO Pro*

Foreword

Congratulation to your new investment. You chose one of the best GPS enabled mobile radar- and laser detetcor available on the market today.
The *Radenso Pro* is high tech MADE IN EUROPE packaged into the smallest detetcor in the world. The focus of the development of *Radanso Pro* was simple: Design the most ergonomic and user-friendly radar detector for easy and unobtrusive installation with long range warning on all radar bands coupled with intelligent filters to eliminate annoying false alarms from non-radar threats. And our Engineers delivered!

Radenso Pro features:

- Smallest high performance radar detetcor in the world
- Selectable X, K and Ka radar band
- Selectable Ka narrow radar band tuned to the exact radar frequencies used in North America
- Selectable K narrow radar band tuned to the exact radar frequencies used in North America for increased range and reduced false alarms
- Selectable Ka POP radar band (ON/OFF)
- Selectable Traffic Sensor Rejection Filter (TSRF)
- Highway, City and AutoCity Mode
- Revolutionary AutoCity Mode with selectable Band filtering based on speed settings
- Bright, Dim, Dark Display modes
- Smart Dark Display Mode (turns on display only for alerts)
- Bright Alphanumeric LED display
- AutoMute reduces volume of alerts after 2 seconds
- Preloaded GPS Speed- and Redlight camera data base
- Unlimited free lifetime updates for database and firmware – no obsolescence ever
- 7 selectable display modes (Speed/Time, Speed/Voltage, Battery Voltage, Time, Speed, Speed/Compass)
- Display of radar frequency during visual alert
- Voice Alerts
- SpeedMeter Option (turns off radar circuitry completely and converts *Radenso Pro* into a digital Speedometer for states where radar detector are prohibited)
- Mark your own POI locations for future alerts
- User friendly, easy voice guided feature selection
- Extreme suction cups for firm, secure installation at windshield
- Power Cord with Power ON/OFF button
- Optional Direct Wire power cord available
- Optional Vertical windshield mount available
- 2 year manufacturer warranty

Quick Start up Guide

To start using your *Radenso Pro* radar detetcor follow these easy steps:

1. Slide the windshield mounting bracket into the QuickMount slot at the front of the radar detector

2. Plug the small end of the power cable into the Power Jack of Radenso Pro on the left side of the detector and connect the large plug with the 12V power socket of your car

3. Press the red button at the large end of the power cable (at the 12 V socket) to turn the power cable on. The button will light up and indicate if Power is on.

4. Press the Power button (left button on top of unit) for 2 seconds to turn on *Radenso Pro*

   Unit will power up with start up sequence. After a few seconds *Radenso Pro* will notify you with a Voice message that Satellite is connected

Adjust the volume level by pressing the Volume buttons „“+“ or “-“ located on the right side of the unit.

***Change Default settings**:*
Radenso Pro is now ready to go. If you want to change any of the default settings of your unit please refer to the next pages

Main functions of Radenso Pro

Radenso PRO is one the most powerful detectors in the Industry and is designed to protect the driver from speeding fines. *Radenso Pro* communicates with the driver in English language and its main functions are the detection of microwave radars (X / K / Ka narrow bands), laser guns, red light cameras and fixed speed cameras (GPS database).

Notifications:

When a radar signal is detected the driver is being alerted by a visual text warning and a voice and tone alert. The display and voice alert will indicate the received radar band or frequency and the signal strength. A beeping warning tone will increase its intensity with increasing signal strength. The signal strength has ten levels. GPS alerts are reported by voice, for example “Speed Camera”.

Function of Control Buttons

Power / Menu Button
Short press: You will enter into setup menu. During an alert pressing the button mutes the volume. The next alarm will be reported again with the default vol.
Long press: Turn unit ON / OFF

Release Button
Press this button and slide the windshield mount until it is locked. Press button to unlock the mount for removal

Mode/Sensitivity/Mark Button *Short press*: Scroll between Highway/City/AutoCity modes. .
Long Press: Add your own POI GPS point for future alarms

Alphanumeric Display
Radenso Pro will show selected display mode, visual alerts and text messages

Display/Alert Lockout Button
Short press: Select display brighness (Bright, dim, smart dark, full dark)
Long press: Lockout alert location

Volume Buttons [+ -]
Short press: Changing volume of Radenso Pro or change program options in the Menu Mode

USB Port
Connect USB data cable to update database and/or firmware from our website

Power Jack
Plug power cord into this port

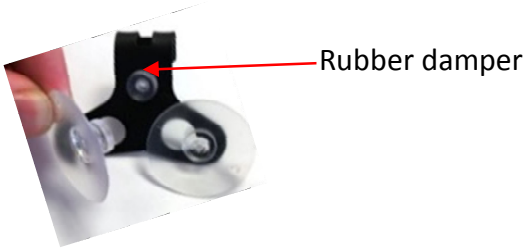
Windshield Mount Slot
Insert the windshield mount into this slot until you hear the „click“

Radar Horn Antenna and Laser Lens
Needs unbostructed view of the road ahead. Do not mount behind metal coated windshields or wipers

Installation

The *Radenso Pro* windshield mount allows a firm and secure installation of the radar detector at the windshield of your vehicle. Locate an area at the windshield that enables an unobtrusive installation with clear view to the road ahead.

1. Place the nipple of the suction cups in the large hole of the bracket und pull the suction cup into the small hole to secure them. Push the rubber damper into the hole in the middle of the bracket



2. Attach the windshield mount to the desired area of the windshield. Make sure it is in a level position parallel to the road ahead. To adjust the angle if necessary, gently push or pull on the bracket to bend it. **DO NOT** use the detector to bend the bracket.

3. Insert the windshield mount into the slot at the front of the detector until it is locked in position

   For firm and secure adherence to the windshield keep windshield and suction cups clean

4. Plug the small end of the power cable into the detetcor (located on the left side) and the large end into your vehicle's 12V ACC socket.

5. To remove *Radenso Pro* from the windhield press the release button on top of the unit and slide the unit off the mount.

Control buttons on top and side of unit:

Left button MENU / ON-OFF

Short press: You will enter into setup menu. During an alert pressing the button will mute the volume. The next alarm will be reported again in the standard volume.

Long press: Turn ON / OFF *Radenso Pro*.

Middle button BRIGHTNESS / ALERT SUPPRESSION

Short press: You can change the brightness of the display - Bright -> Dim -> Smart Dark -> Full Dark.
Bright: Brightest display setting
Dim: Slightly dimmed display
Smart Dark: Display is deactivated but will come on with Text warning during an alert
Full Dark: Display is completely deactivated. Only voice and tone alerts are active

Long Press: Holding the button during an obvious false alert will lockout the location in the future. The signal will no longer be reported and the alarm suppressed when passing the marked location again. You can re-activate the location again by holding the button when approaching the marked location.

Right button SENSITIVITY / ADD YOUR OWN GPS POINT

Short press: You can scroll between *Highway / City / Auto City* modes. In *City* or *Auto City* modes the sensitivity of X / K / Ka bands can be reduced according to user preference.

Long Press: Add your own POI GPS point for future alarms.

+ / -Buttons on the right side

Short press: Changing alert volume of *Radenso Pro* or change program options while in Menu Mode

Menu and User Selectable Features

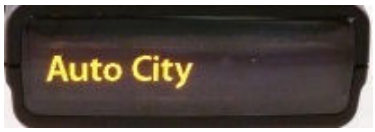
Press *left button* to enter Menu Mode.
Press *left button* again to go from one menu option to the next.
Press VOLUME + or – button (on the right side of detector) to change your setting within the category.
To save the changed selection simply wait a few seconds without pressing any button. The unit will display "*Setting Completed*" to confirm your selection. Alternatively, you can leave the menu and save the setting by tapping the *right button*.

The following selectable features are vailable:

Setting Mode:	**Highway** / City / Auto City (see explanation on next page)
***Display Mode*:**	Speed/Time, Speed/Voltage, Battery Voltage, Time, Speed, **Speed/Compass**
Unit:	**English** / Metrics
Display:	**Frequency** / Bar
***Auto Mute*:**	**On** / Off*:* If activated alert volume will be automatically reduced after 2 seconds.
***Minimum Speed sensing radar*:**	**Off,** 10 mph, 20 mph, 30 mph ....70 mph
X-Band:	*On / **Off***
***K-Band*:**	**Wide** / Narrow / Instant Only / Off
***K TS Rej*:**	**On** / Off (Turn on to eliminate K falses from Traffic sensors, Blind spot mirrors, lane assist etc.)
Ka-Band:	Wide / **Narrow** / Off
Ka POP Band:	On / **Off**
Laser Band:	**On** / Off
Startup sound:	**On** / Off
GPS connected announcement:	**On** / Off
***GPS detection by database type*:**	Via *Middle button* you can *select the type of GPS points.* *For editing use + / -. You can turn on and off particular type of point*.
***GPS warning distance*:**	**Normal** (approx. 800 ft) / Farther (approx. 1250 ft) / Farthest (approx. 1650 ft)
***Setting local time*:**	You can change time using + / - button on the side
Factory reset:	For reset press middle button.
Delete all user points?:	For deleting all saved user locations press middle button.

Setting AutoCity speed

The *AutoCity* driving mode allows the setting of minimum alert detection speed for signal suppression AND signal filtering resulting in 90% reduced false alerts. Select AutoCity in Setting Mode



Setting **AutoCity speed**: (feature selectable only if *Setting Mode* is set to ***AutoCity***):
Tapping the *Middle button* lets you select the speed for editing

Left speed setting indicates the speed below which the radar reception of the detector will be completely disabled (in example above 20 mph). No signals from police radar or false signals from automatic door openers will be reported.

The right speed setting indicates the speed below which the detector will detect alerts in City mode with reduced radar sensitivity (in example above 40 mph).

+ / - buttons on the right side of the detector will change the specific speed setting.

RECOMMENDATION "20" and "35" The detector will not alert to any signal below 20 mph and will operate with reduced radar reception between 20 and 35 mph. Maximum detector sensitivity will be achieved above 35 mph.

Setting **City and AutoCity sensitivity** (this option is available only in *City* or *AutoCity* Mode):
By means of the Middle button you can select the radar band for editing.

To change the sensitivity of signal reception use *+ / -*button on the side of the unit. The level of signal suppression can be selected in the range 0-9. The displayed numbers indicate the sensitivity reduction in the different radar bands. The example displayed above indicates that the X Band sensitivity is reduced by 50%, K Band sensitivity reduced by 20% and Ka Band sensitivity is not reduced at all (0% reduction).

SpeedMeter Mode:

This function is intended for legal operation of *Radenso Pro* in countries or states where the use of radar detectors is not permitted. The detector stops alerting to POI GPS locations as well as all radar and laser signals and the device is only displaying the travel speed and heading. To activate this function you need to simultaneously hold the *middle* and *right button* for approximately 5 seconds. After that you will enter into *SpeedMeter Mode* and all POI, radar and laser warnings are disabled. To deactivate *SpeedMeter* and to reactivate the full function of *Radenso Pro* again you need to hold the *right button* and the *+ button* and then plug the unit into a power source. You need to hold the buttons for approximately 8 seconds. After 8 seconds the display will show SpeedMeter OFF and radar-, laser- and POI detection is reactivated again.

Operating frequency:

GPS: SiRF STAR IV
Ka narrow: 33.80, 34.7GHz, 35,5GHz (± 120MHz)
Ka Wide: 33.4 GHz - 36.0 GHz
K narrow: 24.125GHz (± 70MHz)
K wide: 24.125GHz (± 150MHz)
X band: 10.525GHz (± 50MHz)
Laser: 904nm

Technical parameters:

Operating temperature: --30° - +180 ° F
Operating voltage: 11-16 V
Energy consumption: 250 mA normal, 330 mA max. (12V)
Dimensions: 2.44 x 3.62 * 1.33 inch
62 x 92 x 34 mm

FCC Compliance
This device complies with part 15 of FCC rules: Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received including interference that may cause undesired operation.

FCC NOTE: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE MANUFACTURER COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT

Database Updates:

Radenso Pro is web ready and equipped with a Mini USB data port. It is recommended to check for GPS Database updates every three months. To download updates of the GPS database follow the instructions at http://radenso.com/free-radar-detector-updates

Your Dealer:

Manual REV: 2015-05-30